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75/ R/BE/5 - Control of Weevils - Beans

Rothamsted Research

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75/R/BE/5

SPRING BEANS

CONTROL OF WEEVILS

Object: To study the effects of several insecticides on control of weevils (and their parasites), weevil-transmitted viruses, and yield of field beans - Delafield.

Sponsors: A.J. Cockbain, J.H. Stevenson, P. Etheridge.

Design: 4 blocks of 6 plots.

Whole plot dimensions: 8.53 x 18.3. (Plots separated by fallows - 6.4 m).

Treatments: All combinations of insecticides:-

1. Sprays to foliage:	SPRAY
None	NONE
Fenitrothion at 0.75 kg	FENITRO
Malathion at 0.75 kg	MALATHIO
2. Granules to foliage:	GRANULE
None	NONE
Phorate at 1.1 kg	PHORATE

NOTE: Sprays, in 500 l, were applied on 22 May and 18 June. Granules were applied on 22 May and 20 June.

Basal applications: Manures: (0:14:28) at 410 kg placement drilled.
Weedkiller: Simazine at 1.1 kg in 220 l. Insecticide: Menazon at 0.28 kg in 450 l.

Seed: Maris Bead, sown at 220 kg.

Cultivations, etc.:- Ploughed: 17 Jan, 1975. Spring-tine cultivated twice: 20 Apr. Seed sown and spring-tine cultivated: 22 Apr. Weedkiller applied: 24 Apr. Fallow areas rotary cultivated: 27 May, 25 June and 30 July. Menazon applied: 9 July. Combine harvested: 28 Aug. Previous crops: Winter wheat 1973, barley 1974.

NOTE: Amounts of damage by weevils were recorded on 21 May, and 30 May, and numbers of adults were estimated on 16 and 23 June. Incidence of viruses was assessed on 21 May, 24 June, 10 and 25 July and samples of seed were taken on 26 Aug to assess virus infection.

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*** TABLES OF MEANS ***

GRAIN TONNES/HECTARE

SPRAY GRANULE	NONE	FENITRO	MALATHIO	MEAN
NONE	1.41	1.91	1.74	1.68
PHORATE	1.44	1.93	1.92	1.76
MEAN	1.42	1.92	1.83	1.72

*** STANDARD ERRORS OF DIFFERENCES OF MEANS ***

TABLE	GRANULE	SPRAY	GRANULE SPRAY
SED	0.068	0.084	0.118

*** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION ***

STRATUM	DF	SE	CV%
BLOCK.WP	15	0.167	9.7

GRAIN MEAN DM% 86.2

PLOT AREA HARVESTED 0.00585